

SUPPLEMENTARY DATA

Supplementary Table 1. Factor Loadings of the 33 items of the PedsQL 3.2 Diabetes Module for Parent Proxy-Report

Factor Structure			
Scales	Items	Diabetes Symptoms	Diabetes Management
Diabetes Symptoms	Feeling hungry	0.43	
	Feeling thirsty	0.50	
	Having to go to the bathroom too often	0.54	
	Having stomachaches	0.71	
	Having headaches	0.65	
	Feeling like he/she needs to throw up	0.66	
	Going “low”	0.43	
	Going “high”	0.31	0.33
	Feeling tired	0.54	
	Getting shaky	0.80	
	Getting sweaty	0.80	
	Feeling dizzy	0.84	
	Feeling weak	0.81	
	Having trouble sleeping	0.42	
	Getting cranky or grumpy	0.51	
Treatment Barriers	Finger pricks causing him/her pain		0.45
	Insulin shots causing him/her pain		0.42
	Getting embarrassed about his/her diabetes treatment		0.65
	Arguing with me or my spouse about diabetes care		0.53
	It is hard for my child to do everything he/she needs to do to care for his/her diabetes		0.70
Treatment Adherence	It is hard for my child to take blood glucose tests		0.78
	It is hard for my child to take insulin shots		0.74
	It is hard for my child to play or do sports		0.49
	It is hard for my child to track carbohydrates		0.74
	It is hard for my child to carry a fast-acting carbohydrate		0.79
	It is hard for my child to snack when he/she goes “low”		0.45
Worry	Worrying about going “low”		--
	Worrying about going “high”		0.38
	Worrying about long-term complications from diabetes		0.39
Communication	Telling the doctors and nurses how he/she feels		0.60
	Asking the doctors or nurses questions		0.64

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	Explaining his/her illness to other people		0.68
	Getting embarrassed about having diabetes		0.73

Note: Factor loadings in bold represent diabetes symptoms items. All other factor loadings represent diabetes management items.

Factor loadings less than .30 are not included. -- = item did not load at $\geq .30$.

See text for details of Diabetes Symptoms Summary Score and Diabetes Management Summary Score.

Supplementary Table 2. PedsQL3.2 Diabetes Module Cronbach's Alpha Internal Consistency Reliability for Patient Self-Report and Parent Proxy-Report by Age Group

Diabetes Module Summary Scores	Age Group in Years				
	(2-4) N = 4	(5-7) N = 21	(8-12) N = 200	(13-18) N = 375	(19-25) N = 49
Patient Self-Report	NA	n = 20	n = 191	n = 362	n = 44
Diabetes Symptoms	NA	0.40	0.89	0.89	0.93
Diabetes Management	NA	0.50	0.89	0.88	0.90
Parent Proxy-Report	n = 4	n = 19	n = 188	n = 336	n = 17
Diabetes Symptoms	0.73	0.88	0.89	0.90	0.90
Diabetes Management	0.77	0.69	0.90	0.90	0.93

Note: NA = not applicable.

Cronbach's alpha internal consistency reliability of 0.70 recommended for comparing patient groups; 0.90 recommended for analyzing individual patient scores.

Supplementary Table 3. PedsQL 3.2 Diabetes Module Summary Scores Associations with Demographic and Clinical Variables

Diabetes Module Summary Scores	HbA1c	BMI	BMI percentile	Time since diagnosis	Age	Gender	
Patient Self-Report						Females	Males
Diabetes Symptoms	-0.21***	-0.03	-0.02	-0.02	-0.01	63.51***	67.67
Diabetes Management	-0.29***	-0.04	-0.03	0.05	-0.01	76.86***	81.65
Parent Proxy-Report							
Diabetes Symptoms	-0.29***	-0.01	-0.11*	0.02	0.05	65.76***	70.56
Diabetes Management	-0.27***	-0.05	-0.12*	0.01	-0.01	76.10*	78.67

Note: * $P < 0.05$, ** $P < 0.01$, *** $P < 0.001$ based on Pearson's product moment correlations or t -tests.

Pearson's product moment correlation effect sizes are designated as small (0.10), medium (0.30), and large (0.50) in magnitude.

Lower scores demonstrate more diabetes symptoms and diabetes management problems and hence lower diabetes-specific HRQOL.

Females demonstrated significantly lower (worse) Diabetes Symptoms and Diabetes Management Summary Scores than males.